BRUHAT BANGALORE MAHANAGARA PALIKE

me of work: Improvement to Drain and Roads at Main and Cross roads near STP Plant BTS Layout at Bagalagunte Ward No 14

NUMBER.: Est. Amount = 100.00 Lakhs

Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No.-142 I.No-19.1 of KPWD S.R 2016-17)								
New CC Drain								
CH : 00-105 Main Road	Cum	2	105.00	1.20	1.00	252.00		
CH : 105-215 Cross Road 1		2	110.00	1.20	1.00	264.00		
CH : 215-325 Cross Road 2		1	110.00	1.20	1.00	132.00		
Culvert		9	10.00	1.50	1.20	162.00		
					Total Qty	**810.00**	**186.92**	**151405.20**
KSRB 4-1.3 : Providing and laying in position plain cement concrete cum of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (Page No. 12, It No. 4.3 of KPWD S.R 2016-17)								
New CC Drain								
CH : 00-105 Main Road	Cum	2	105.00	1.20	0.15	37.80		
CH : 105-215 Cross Road 1		2	110.00	1.20	0.15	39.60		
CH : 215-325 Cross Road 2		1	110.00	1.20	0.15	19.80		
Culvert		9	10.00	1.50	0.15	20.25		
CC Road								
CH: 00-130 Main Road		1	130.00	4.50	0.15	87.75		
CH: 130-240 Cross Road 1		1	110.00	4.50	0.15	74.25		
CH: 240-350 Cross Road 2		1	110.00	4.50	0.15	74.25		
					Total Qty	**353.70**	**5159.02**	**1824745.37**
KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2.(Page No.-15 I.No-4.31 of KPWD S.R 2016-17)								
Side Wall								
New CC Drain								
CH : 00-105 Main Road	Sqm	2*4	105.00		0.90	756.00		
CH : 105-215 Cross Road 1		2*4	110.00		0.90	792.00		
CH : 215-325 Cross Road 2		1*4	110.00		0.90	396.00		
Culvert		9*4	10.00		1.10	396.00		
					Total Qty	**2340.00**	**310.58**	**726757.20**
KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per directions of the Engineer-in-charge. Specification No. KBS 4.6.3(Item no: 4.46.2, Page no: 17 of KPWD S.R 2016-17).								
Steel								
For Drain One cubic mt 60kg	Tonne	1		13.61		13.61		
For Culvert One cubic mt 75kg		1		4.02		4.02		
					Total Qty	**17.62**	**64243.42**	**1131969.06**
Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mix concrete(RMC) for RCC works laid in 15 cms thick layers and well conpacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exlusive of cost of steel and fabrication charges) Ready mix concrete M-20 for raft foundation, coulmn and footing, main ans secondary beams.(Page No.-18 I.No-4.48 of KPWD S.R 2016-17)								
New Drain								
Bottom Slab								
CH : 00-105 Main Road		2*1	105.00	1.20	0.15	37.80		
CH : 105-215 Cross Road 1		2*1	110.00	1.20	0.15	39.60		
CH : 215-325 Cross Road 2		1*1	110.00	1.20	0.15	19.80		

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	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
	Culvert	Cum	9*1	10.00	1.30	0.15	17.55		
	Side Wall								
	CH : 00-105 Main Road		2*2	105.00	0.15	0.80	50.40		
	CH : 105-215 Cross Road 1		2*2	110.00	0.15	0.80	52.80		
	CH : 215-325 Cross Road 2		1*2	110.00	0.15	0.80	26.40		
	Culvert		9*2	10.00	0.20	1.00	36.00		
						Total Qty	**280.35**	**6231.74**	**1747068.31**
	Providing and laying pre-cast drain cover slab of 100mm thickness in CM1:3 including cost of all materials,labour,curing, transportation, loading, unloading etc.,as per doiirections of the Enineer-in-charge. {Data Rate sheet enclosed}								
	New CC Drain	Sqm							
	CH : 00-105 Main Road		2	105.00	1.00		210.00		
	CH : 105-215 Cross Road 1		2	110.00	1.00		220.00		
	CH : 215-325 Cross Road 2		2	110.00	1.00		220.00		
	Missing Cover Slab for Cross Road		2	69.00	0.90		124.20		
						Total Qty	**774.20**	**1873.00**	**1450076.60**
	Providing and laying Pre Cast Drain Cover slabs of 250mm thickness including cost of all materials, labour, curing, transportation,loading, unloading etc.,complete as per the direction of Engineer - In- Charge. (Data Rate enclosed)								
	Culvert	Sqm	9	10.00	1.50		135.00		
						Total Qty	**135.00**	**4218.00**	**569430.00**
	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305 (Page No,-148, I.No.-19.60 of KPWD S.R 2016-17).								
	CC Road	Cum							
	CH: 00-130 Main Road		1	130.00	5.50	0.30	214.50		
	CH: 130-240 Cross Road 1		1	110.00	5.50	0.30	181.50		
	CH: 240-350 Cross Road 2		1	110.00	5.50	0.30	181.50		
						Total Qty	**577.50**	**320.12**	**184869.30**
	Earth work in soil with hydraulic excavator of 0.9 cu.m. bucket capacity including cutting and loading in tippers, trimming bottom and side slopes. In accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications and 9 Kms Lead for Disposal (Page No,-143, I.No.-19.14 of KPWD S.R 2016-17).								
	CC Road	Cum							
	CH: 00-130 Main Road		1	130.00	4.50	0.30	175.50		
	CH: 130-240 Cross Road 1		1	110.00	4.50	0.30	148.50		
	CH: 240-350 Cross Road 2		1	110.00	4.50	0.30	148.50		
						Total Qty	**472.50**	**77.56**	**36647.10**
0	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No,-158, I.No.-20.18 of KPWD S.R 2016-17).								
	CC Road	Cum							
	CH: 00-130 Main Road		1	130.00	4.50	0.20	117.00		
	CH: 130-240 Cross Road 1		1	110.00	4.50	0.20	99.00		
	CH: 240-350 Cross Road 2		1	110.00	4.50	0.20	99.00		
						Total Qty	**315.00**	**1768.08**	**556945.20**
11	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement,M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, including curing, finishing to lines and grades as per drawing complete as per specifications. (Page No,-177, I.No.-22.6.1 of KPWD S.R 2016-17).								
	CC Road	Cum							
	CH: 00-130 Main Road		1	130.00	4.50	0.15	87.75		
	CH: 130-240 Cross Road 1		1	110.00	4.50	0.15	74.25		
	CH: 240-350 Cross Road 2		1	110.00	4.50	0.15	74.25		
						Total Qty	**236.25**	**6217.96**	**1468993.05**

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Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate In Rs.	Amount In Rs.
12	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. (Page No. 177, It No. 22.7 of KPWD S.R 2016-17)								
	CC Road								
	CH: 00-130 Main Road	Sqm	1	130.00	4.50		585.00		
	CH: 130-240 Cross Road 1		1	110.00	4.50		495.00		
	CH: 240-350 Cross Road 2		1	110.00	4.50		495.00		
						Total Qty	**1575.00**	**95.40**	**150255.00**
								Total Constrution cost	**99,99,161.39**
								Sub Total	**99,99,161.39**
								Miscellaneous & Rounding Off	**838.61**
								Grand Total	**100,00,000.00**

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2016-17
4. The provisions made in the estimate are necessary and essential.

Assistant Engineer
Ward 14
BBMP - Bangalore

Assistant Executive Engineer
Bagalagunte
BBMP - Bangalore

Executive Engineer
Dasarahalli
BBMP - Bangalore

ನಂ: EE/DD/AS/32/18-19 ದಿನಾಂಕ: 30/07/13
ರೂ. Rs. 100.00 lakh only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ಪಂ. EE/DD/AS/32/18-19 ದಿನಾಂಕ: 1.12.18
ರೂ. Rs. 100.00 Lakh (One Hundred Lakh only)
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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